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☐ 1. Document ID: US 6490563 B2

Using default format because multiple data bases are involved.

L5: Entry 1 of 4

File: USPT

Dec 3, 2002

US-PAT-NO: 6490563

DOCUMENT-IDENTIFIER: US 6490563 B2

TITLE: Proofreading with text to speech feedback

DATE-ISSUED: December 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hon; Hsiao-Wuen	Woodinville	WA		
Li; Dong	Beijing			CN
Huang; Xuedong	Woodinville	WA		
Ju; Yun-Chen	Bellevue	WA		
Zhang; Xianghui Sean	Beijing			CN

US-CL-CURRENT: 704/260; 382/187, 704/235

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw Desc	Image
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☐ 2. Document ID: US 5812863 A

L5: Entry 2 of 4

File: USPT

Sep 22, 1998

US-PAT-NO: 5812863

DOCUMENT-IDENTIFIER: US 5812863 A

TITLE: Apparatus for correcting misspelling and incorrect usage of word

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishikawa; Masahiko	Ibaraki			JP

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Matsushita Electric Ind.	Osaka			JP	03

APPL-NO: 08/ 312417 [PALM]

DATE FILED: September 26, 1994

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	5-238328	September 24, 1993

INT-CL: [06] G06 F 17/00

US-CL-ISSUED: 395/795

US-CL-CURRENT: 715/533

FIELD-OF-SEARCH: 364/419.01-419.18, 395/145, 395/146, 395/792-798

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5218536</u>	June 1993	McWherter	364/419.12
<u>5359707</u>	October 1994	Sato	364/419.14 X

OTHER PUBLICATIONS

"Computer Programs for Spelling correction: An Experiment in Program Design", by J. L. Peterson, Lecture Notes in Computer Science, Springer Verlag 1980.

ART-UNIT: 242

PRIMARY-EXAMINER: Jankus; Almis R.

ATTY-AGENT-FIRM: Price, Gess, Ubell

ABSTRACT:

The apparatus for correcting the misspelling and incorrect usage of a word according to the present invention enables, when a document is prepared, the proper correction of the misspelling and incorrect usage of a word which are frequently produced by the operator who is a non-native speaker of the language used in the document or a child. The present invention has been achieved in consideration of mistakes resulting from the difference between the language used in the document and the mother tongue of the operator. Specific examples of the causes of such mistakes are the difficulty the operator has in recognizing a specific sound, the characteristics of a noun and a verb which do not exist in the mother tongue of the operator, different sounds used to pronounce a phonogram depending on the language in which it is used, the existence of a dialect and a slang, the existence of a loan word, the inconsistent relationship between the sound used to pronounce a phonogram and the representation of the phonogram, the existence of an ideogram which is similar to but slightly different from another ideogram in configuration and which has different meanings depending on the language in which it is used.

7 Claims, 19 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWD	Draw Desc	Image
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☐ 3. Document ID: WO 200010101 A1, AU 9953943 A, US 20010044724 A1, US 6490563 B2

L5: Entry 3 of 4

File: DWPI

Feb 24, 2000

DERWENT-ACC-NO: 2000-206115

DERWENT-WEEK: 200301

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TITLE: Computer implemented proofreading method in text editing system, involves converting text into audio signal and playing it through speaker, when indicator is detected in text

INVENTOR: HON, H; HUANG, X ; JU, Y ; LI, D ; ZHANG, X S

PRIORITY-DATA: 1998US-0135497 (August 17, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 200010101 A1</u>	February 24, 2000	E	044	G06F017/28
<u>AU 9953943 A</u>	March 6, 2000		000	G06F017/28
<u>US 20010044724 A1</u>	November 22, 2001		000	G10L013/08
<u>US 6490563 B2</u>	December 3, 2002		000	G10L013/08

INT-CL (IPC): G06 F 17/27; G06 F 17/28; G06 K 9/62; G10 L 13/08

ABSTRACTED-PUB-NO: US20010044724A

BASIC-ABSTRACT:

NOVELTY - The text which is received in the text editing module, is converted into an audio signal. The audio signal is played through a speaker, when an indicator is detected in the text. The text is obtained by converting the speech input through a microphone. The indicator in the text may comprise a selected audio utterance or a silent period.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) proofreading system;
- (b) dictation system

USE - In text editing system.

ADVANTAGE - Enables user to perform eyes-free proofreading and also allows to detect errors more efficiently without looking the screen, by providing audio feedback.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart illustrating the proofreading steps.

ABSTRACTED-PUB-NO:

WO 200010101A EQUIVALENT-ABSTRACTS:

NOVELTY - The text which is received in the text editing module, is converted into an audio signal. The audio signal is played through a speaker, when an indicator is detected in the text. The text is obtained by converting the speech input through a microphone. The indicator in the text may comprise a selected audio utterance or a silent period.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

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DESCRIPTION OF DRAWING(S) - The figure shows the flowchart illustrating the proofreading steps.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Ima
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☐ 4. Document ID: US 5812863 A

L5: Entry 4 of 4

File: DWPI

Sep 22, 1998

DERWENT-ACC-NO: 1998-531413

DERWENT-WEEK: 199845

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TITLE: Mistaken word corrector for use during document preparation in foreign language - detects whether usage information of read word received by usage indication operation unit coincides with that in dictionary

INVENTOR: ISHIKAWA, M

PRIORITY-DATA: 1993JP-0238328 (September 24, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 5812863 A	September 22, 1998		031	G06F017/00

INT-CL (IPC): G06 F 17/00

ABSTRACTED-PUB-NO: US 5812863A

BASIC-ABSTRACT:

The corrector has an incorrect spelling or usage detection dictionary (3) which stores words coupled with usage information for each word. The usage information indicates a formal word, a standard word, a slang, a colloquial word, an archaism, a rare word, a poetic word or combination of these types. An usage indication operation unit receives a usage indication for the input word stored in a memory. A mistaken word detector (2) detects whether the word read from the memory is available in the dictionary. A usage determination unit determines whether the usage in the operation unit coincides with that in the dictionary.

A candidate word generator (16) compares the read word with all the words stored in the dictionary. When the read word is not available in the dictionary or the usage information do not coincide mutually, generates a candidate word whose spelling resembles the read word and whose usage information coincides with that received by the operation unit. A candidate word display controller displays the generated candidate words together with the read word in a display unit. A candidate word indication operation unit receives a user indication of one of the displayed candidate words. A word replacement unit replaces the mistaken word in the memory with the indicated candidate word.

ADVANTAGE - Enables to correct spelling and incorrect usage reliably. Provides low price man-machine interface. Enables user to correct independent of type of language used in document.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Ima
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Term

Documents

"6490563"	2
6490563S	0
(4 OR ("6490563".PN.)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4
(L4 OR (6490563).PN.).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	4

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